

I. Amendments to the Specification

Please amend the specification as indicated in the marked-up replacement paragraphs below:

The paragraph beginning at page 1, line 23 and ending at page 2, line 3:

In such systems, control signals are generally transmitted between subscriber station and base station either through a random access channel (RACH), which operates under an Aloha-like random access protocol which is subject to collisions and other failures, or dedicated traffic channels (DTCHs), wherein system resources are reserved for the communication between the two devices. However, the design of RACH and DTCH in such cellular systems were driven by the typical operating characteristics of cellular telephones for voice communication, i.e. – most phones spend a great deal of their time idle and most connections, when they occur, last an average of three minutes. Channel setup thus occurs relatively infrequently and such a setup requires only a small amount of connection time/bandwidth relative to the typical three minute duration of the connection.

The paragraph beginning at page 2, line 3 and ending at page 2, line 11:

The present inventors have determined however, that while wDSL systems based upon mobile cellular technologies can provide reasonable voice performance, they do not provide bandwidth efficiencies that will be required for wDSL systems which are widely deployed and which provide voice and data services. RACH channels will quickly be saturated as numbers of users escalate and use of traffic channels for control signals will consume valuable transmission capacity ~~which~~ that will be otherwise required for servicing users. Further, unlike voice, data transmissions are typically ~~bursty~~ bursty and occur at many random times and conventional, cellular-type, set up requirements are excessive relative to the typically brief, bursty data transmissions.